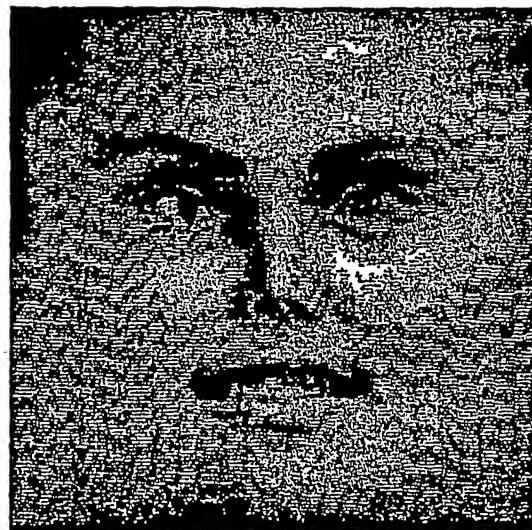


THIS IS A 2D IMAGE OF A 3D SURFACE.

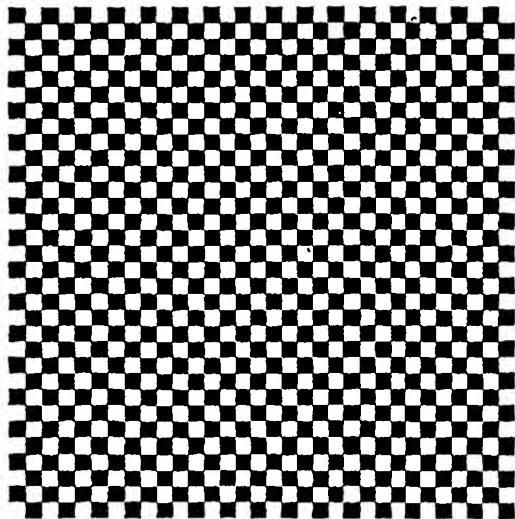
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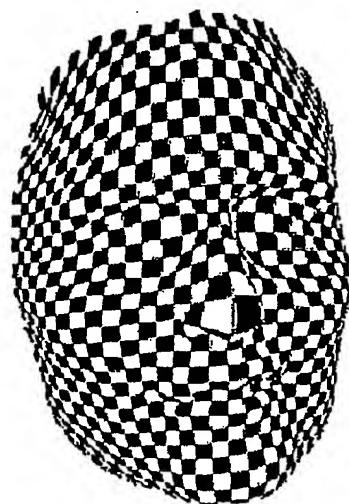
Original Surface



Conformal map to the plane

FIG. 1A

Checkerboard texture

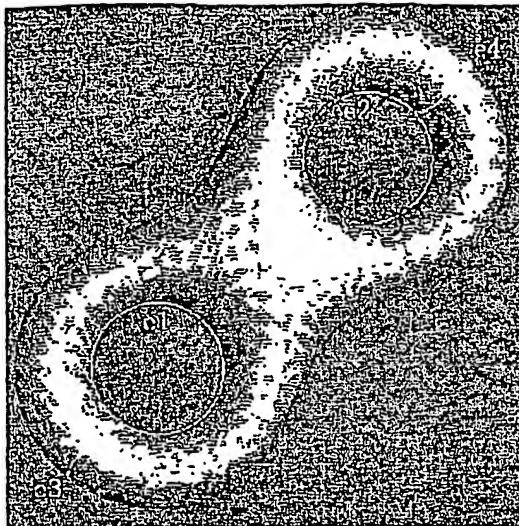


Texture mapped surface

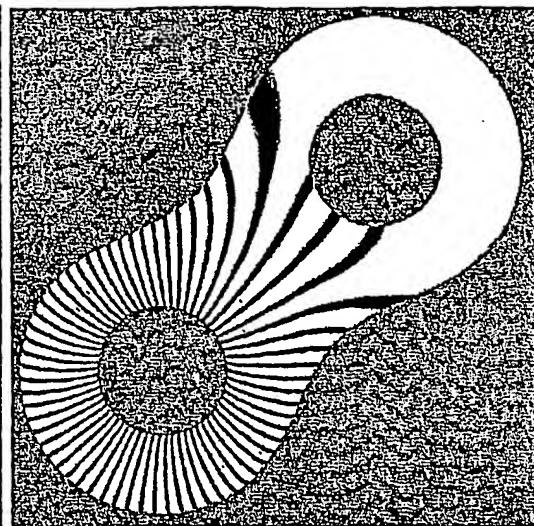
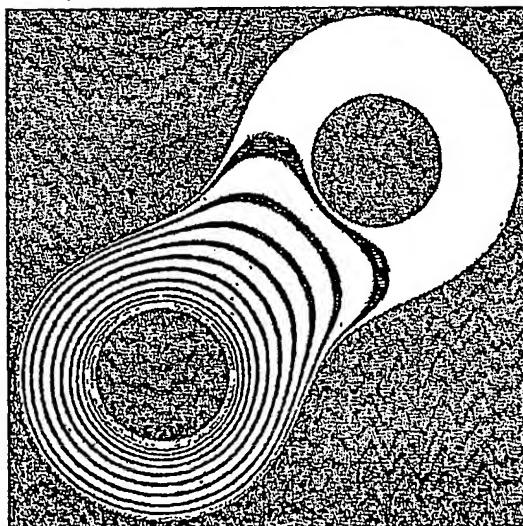
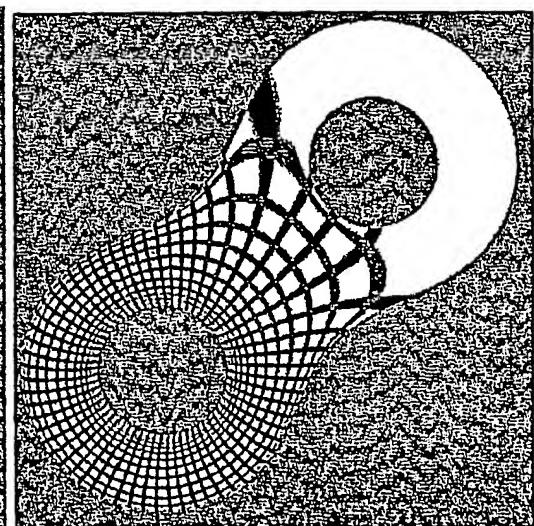
FIG. 1B

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Homology basis

Gradient field ω dual to e_1 .**FIG. 2A****FIG. 2B**Gradient field $*\omega$ conjugate

A conformal gradient field

$$\omega + \sqrt{-1} * \omega$$

FIG. 2C**FIG. 2D**

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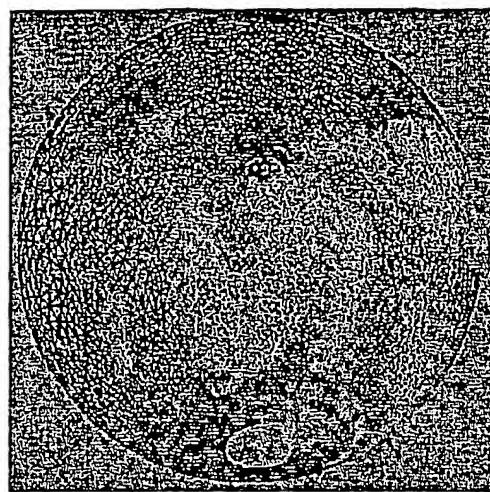


FIG. 3

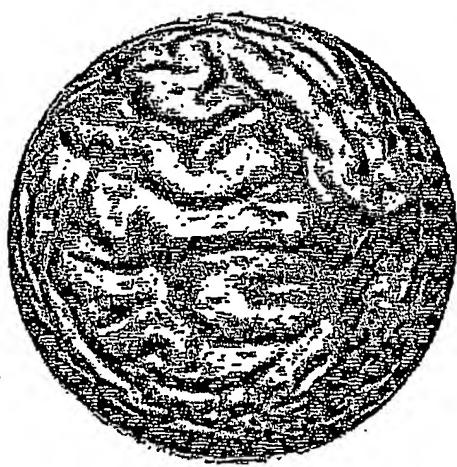


FIG. 4

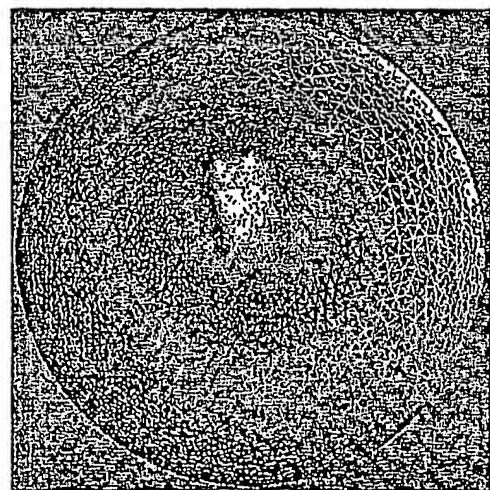


FIG. 5

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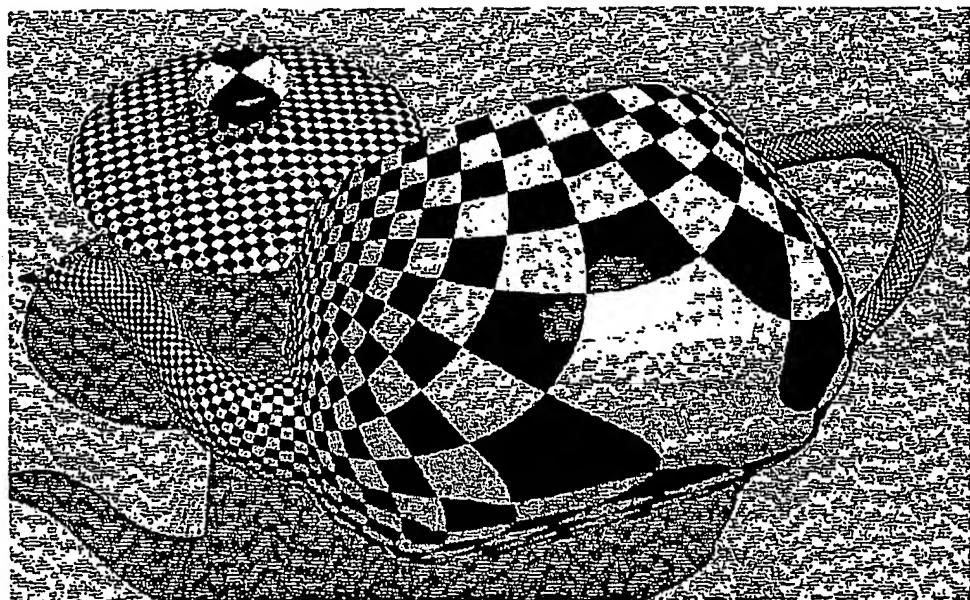


FIG. 6A

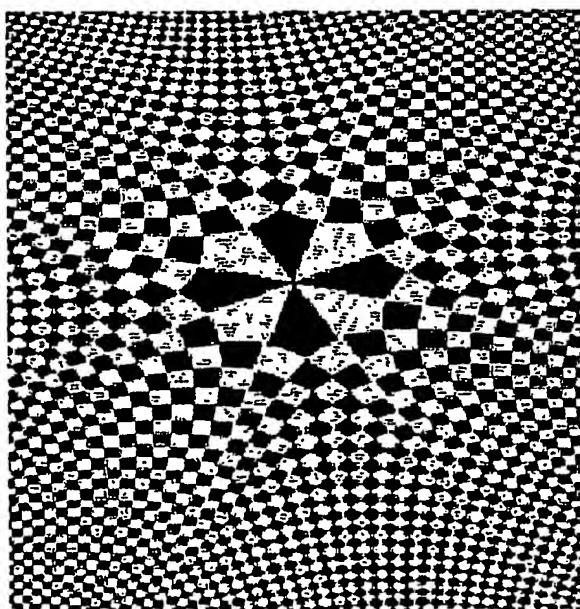


FIG. 6B

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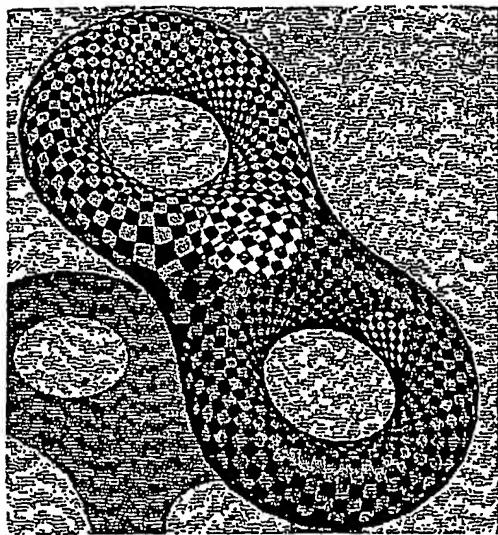


FIG. 7A

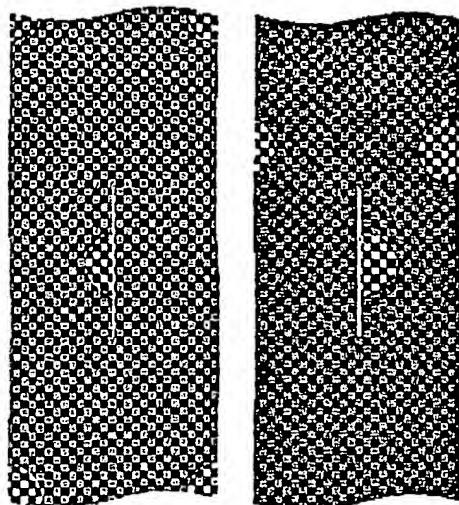


FIG. 7B

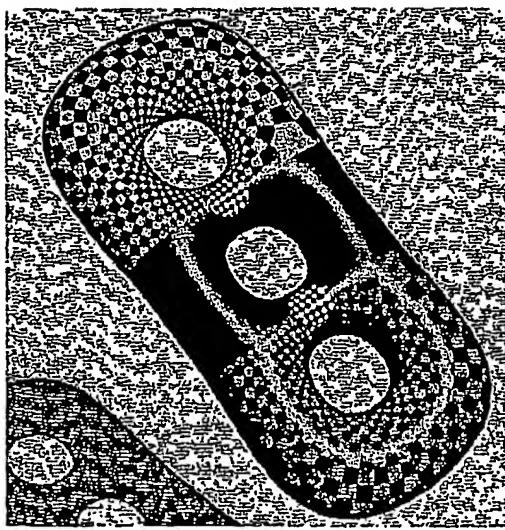


FIG. 7C

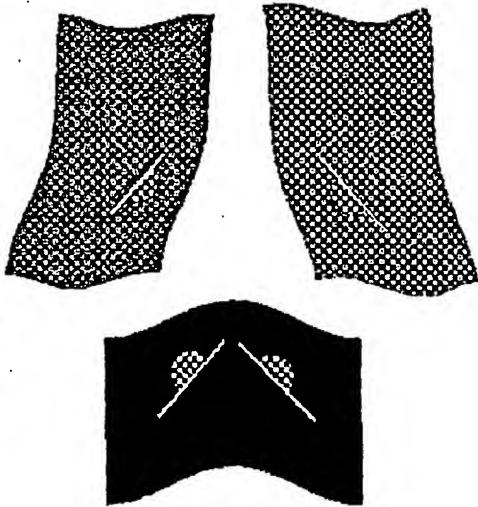


FIG. 7D

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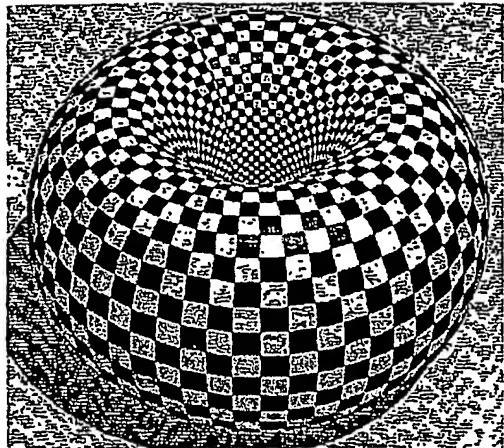


FIG. 8A

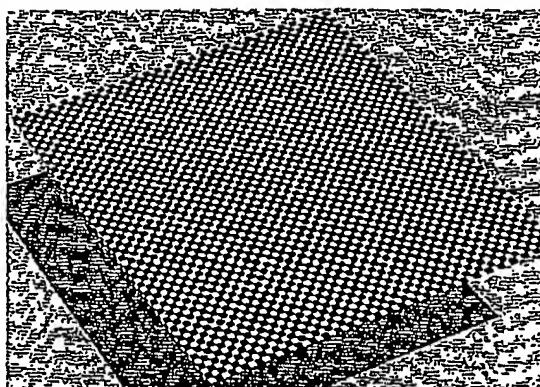


FIG. 8B

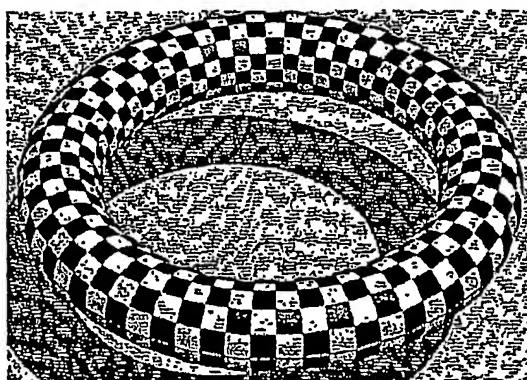


FIG. 8C

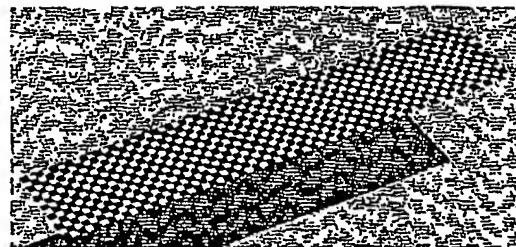
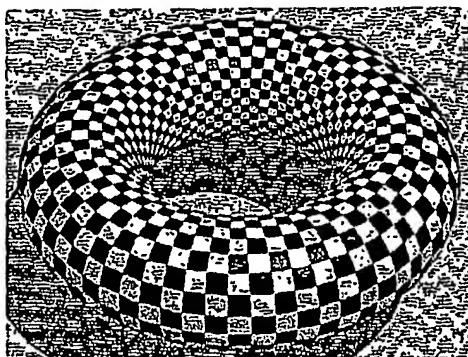
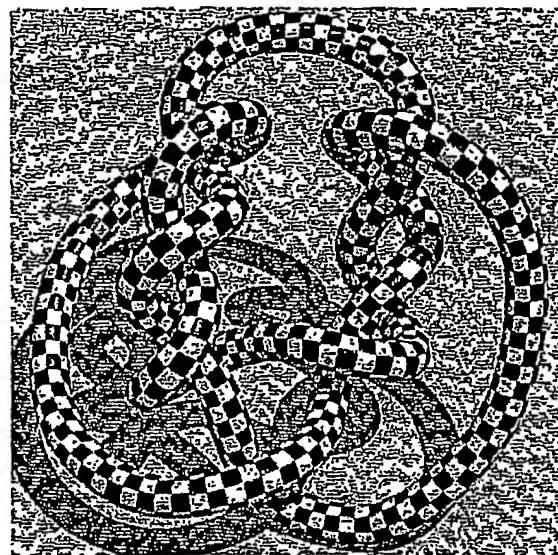
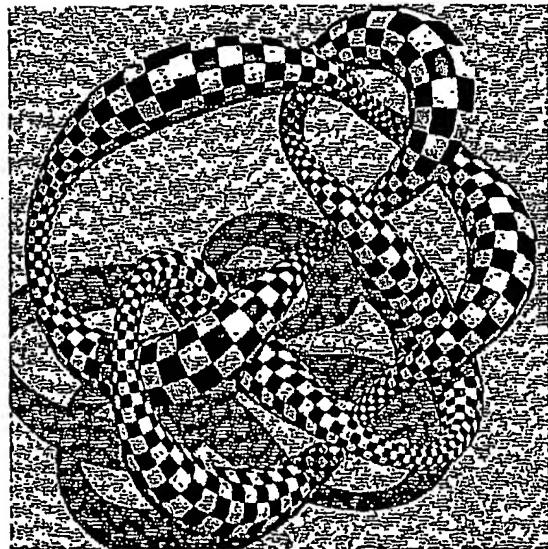
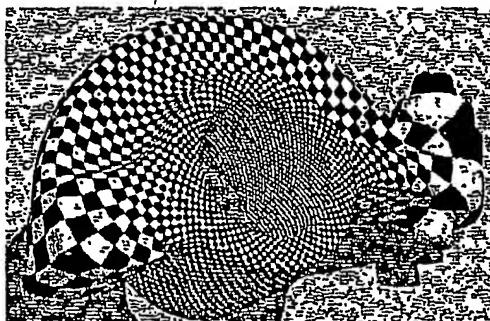


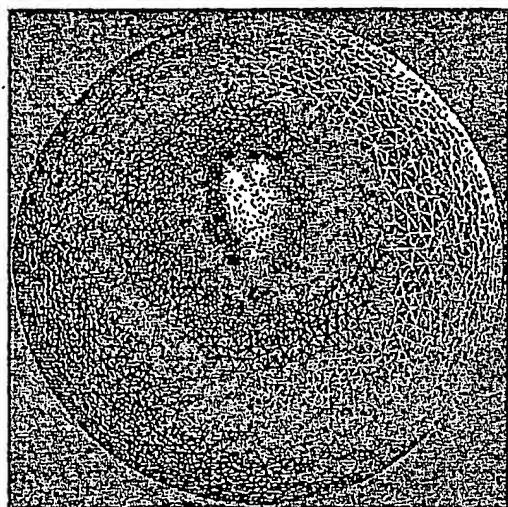
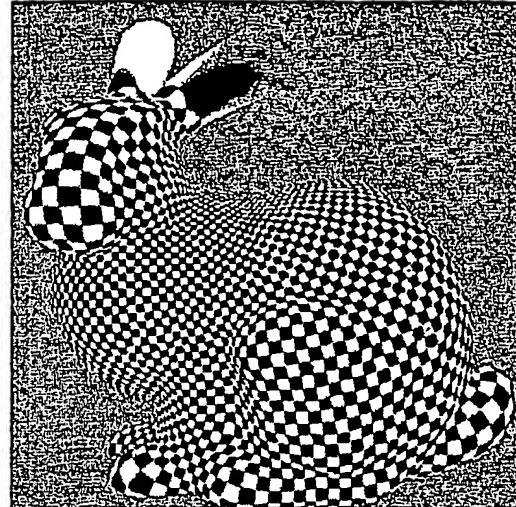
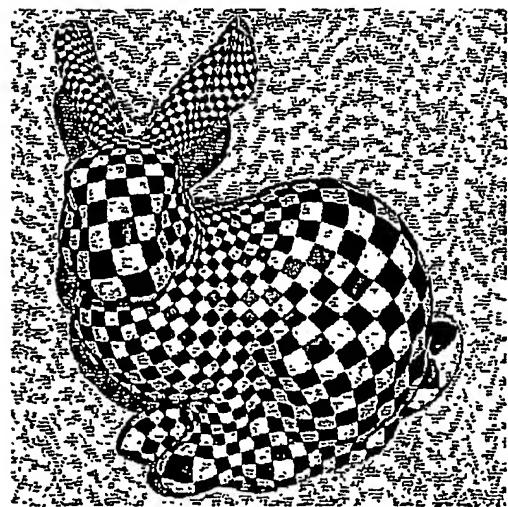
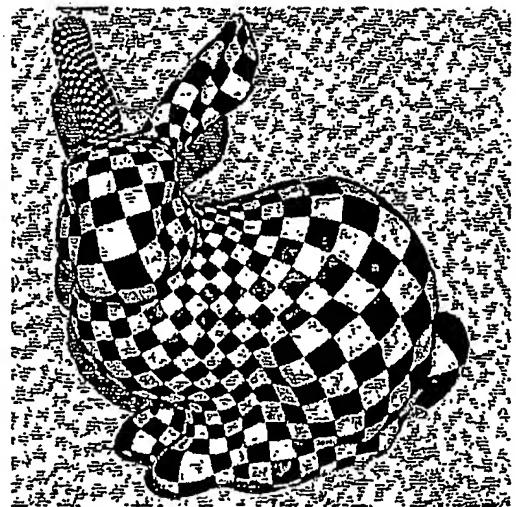
FIG. 8D

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**FIG. 9A****FIG. 9B****FIG. 9C****FIG. 9D**

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***FIG. 10A******FIG. 10B******FIG. 10C******FIG. 10D***

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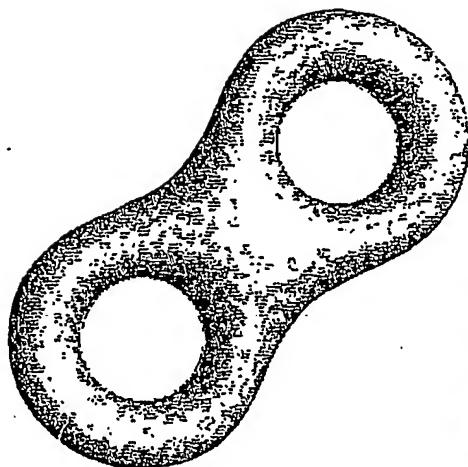


FIG. 11A

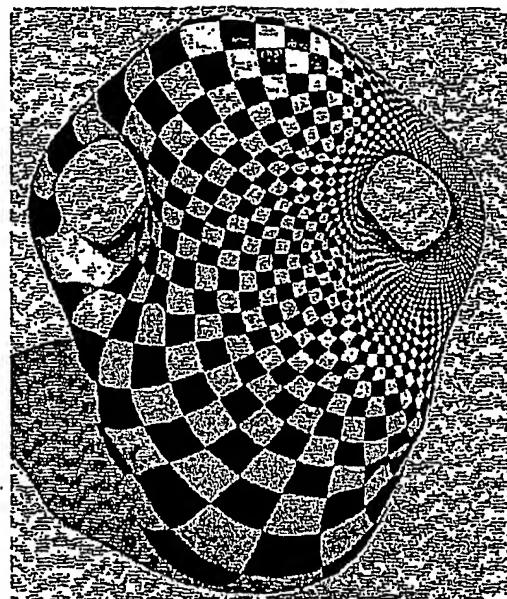


FIG. 11B

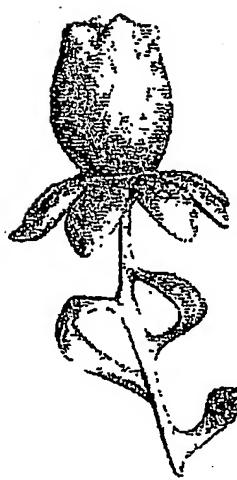


FIG. 11C

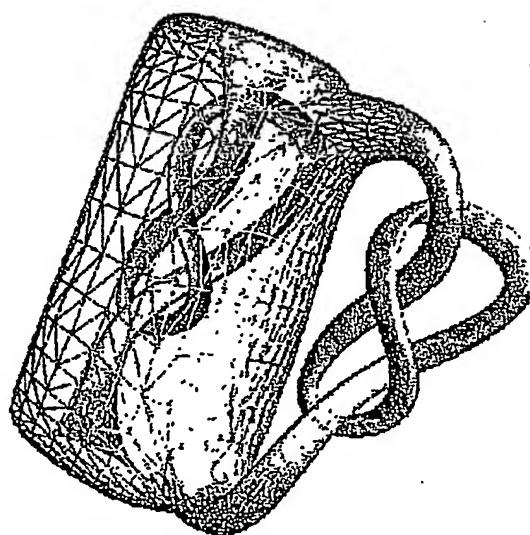
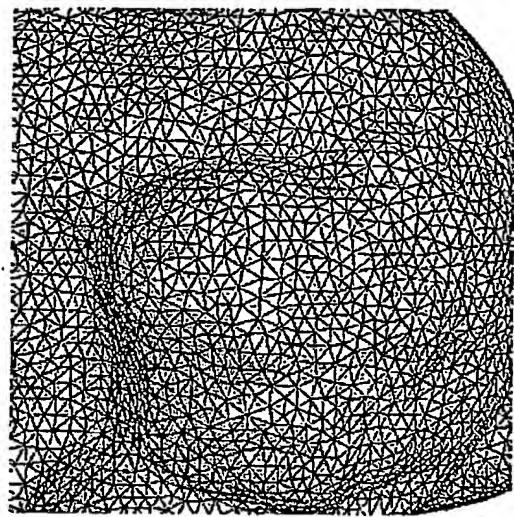
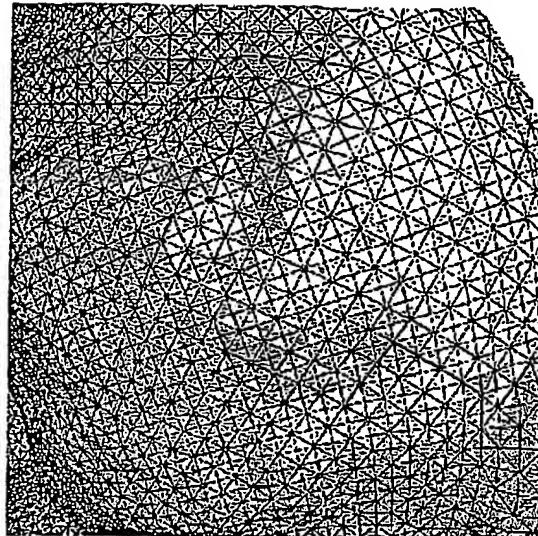
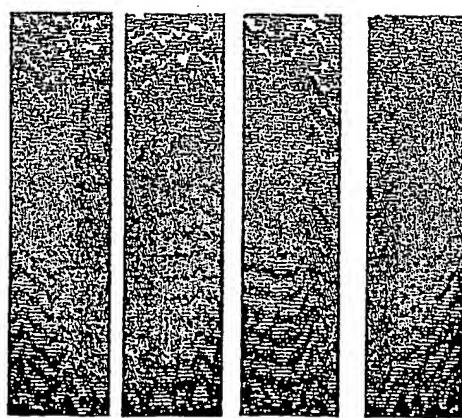
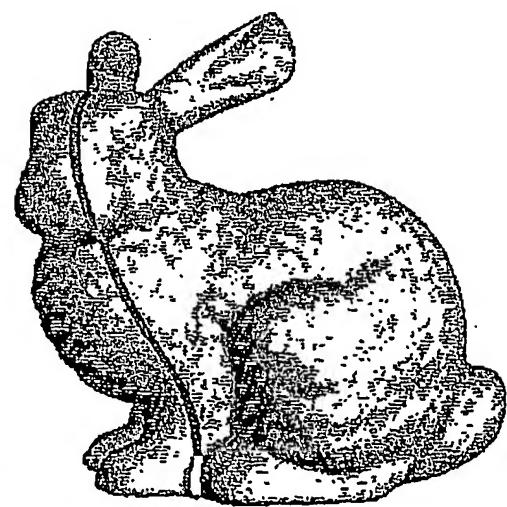


FIG. 11D

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**FIG. 12A****FIG. 12B****FIG. 12C****FIG. 12D**

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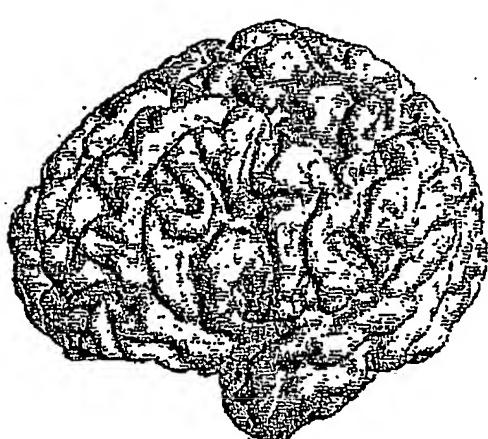


FIG. 13A



FIG. 13B

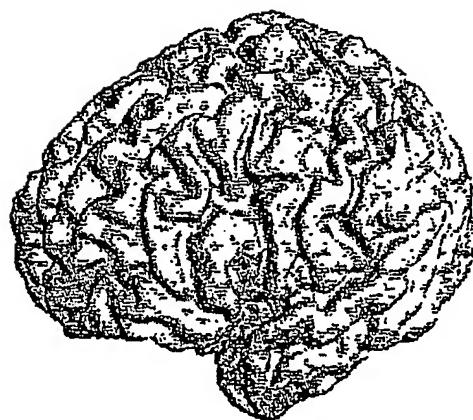


FIG. 13C

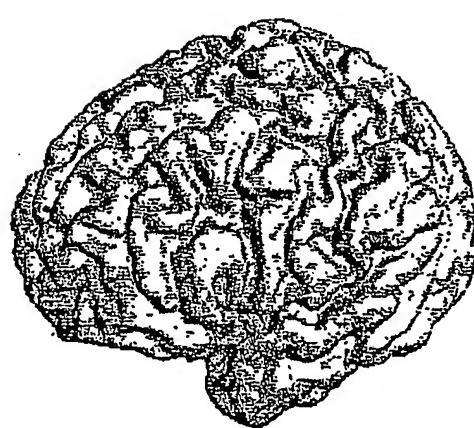


FIG. 13D

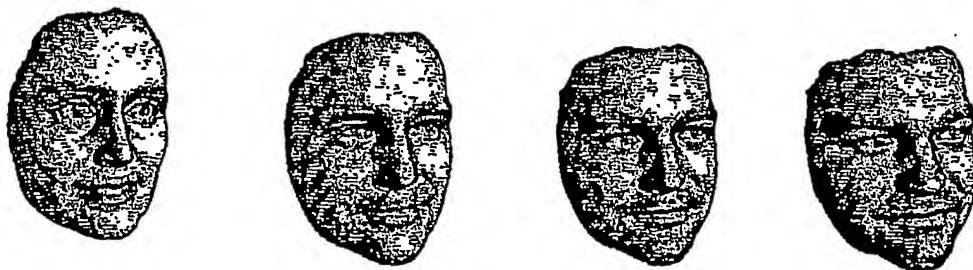


FIG. 14

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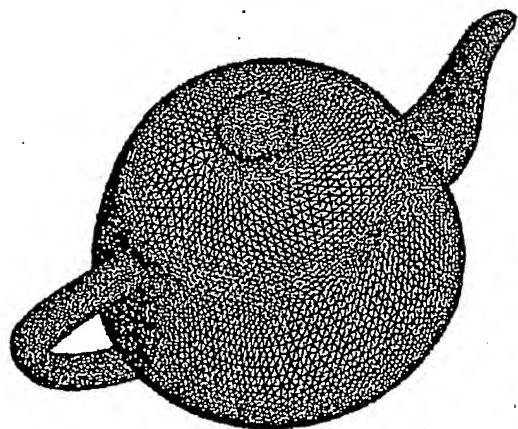


FIG. 15A

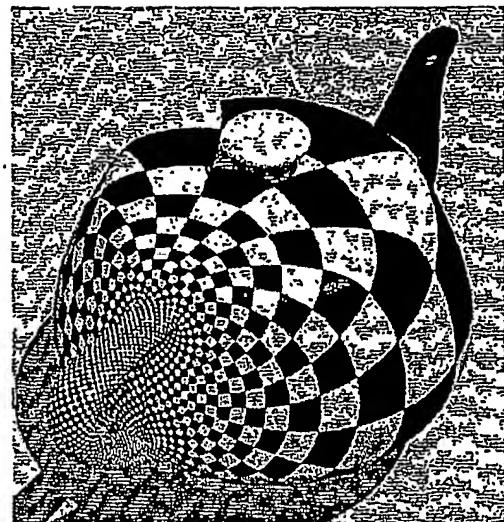


FIG. 15B

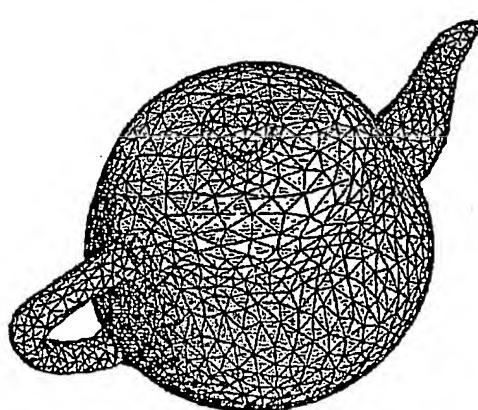


FIG. 15C

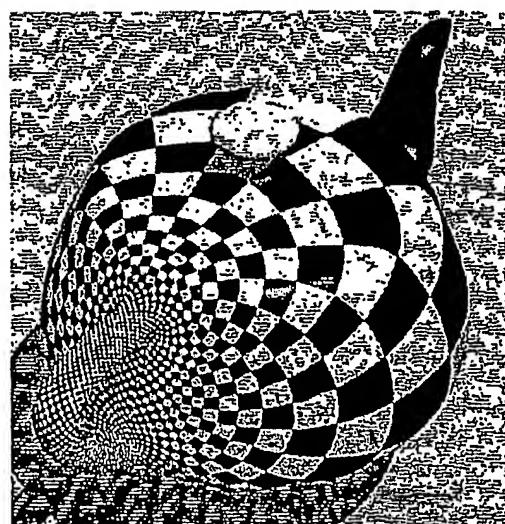
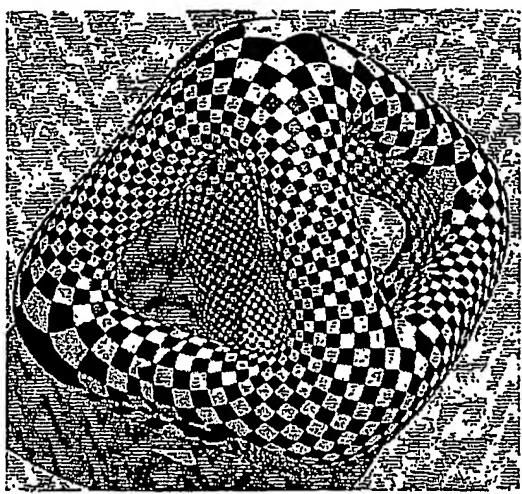
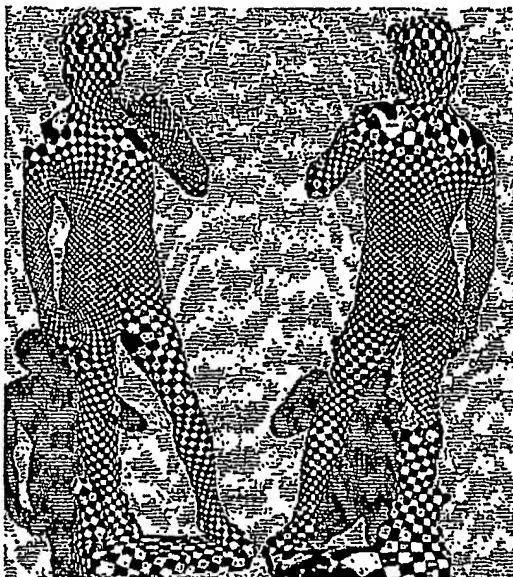
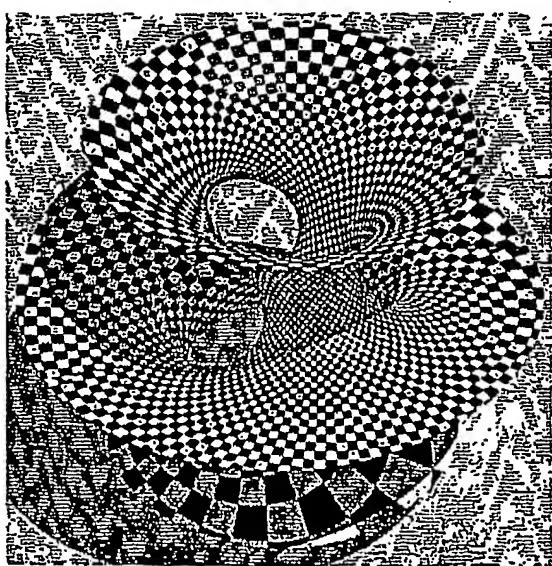
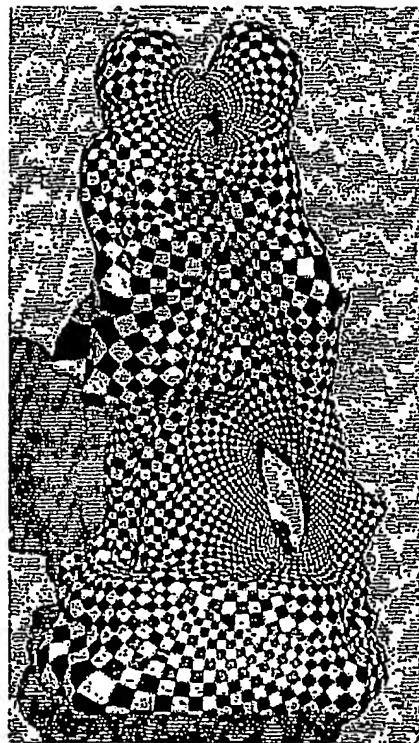


FIG. 15D

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**FIG. 16A****FIG. 16B****FIG. 16C****FIG. 16D**

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